

*Flood is to
control what
society is to ...?*

NLP is a useful tool to identify social tipping elements in adaptation to climate change.

Transformational Adaptation to Floods at Micro and Macro Level: an AI Systematic Review

S. Gil-Clavel & T. Filatova

PRESENTER



Sofia Gil-Clavel

In this work, we **identify control variables** that have **influenced transformational responses** to **floods** in the past and could potentially facilitate or hinder social adaptation in the future.

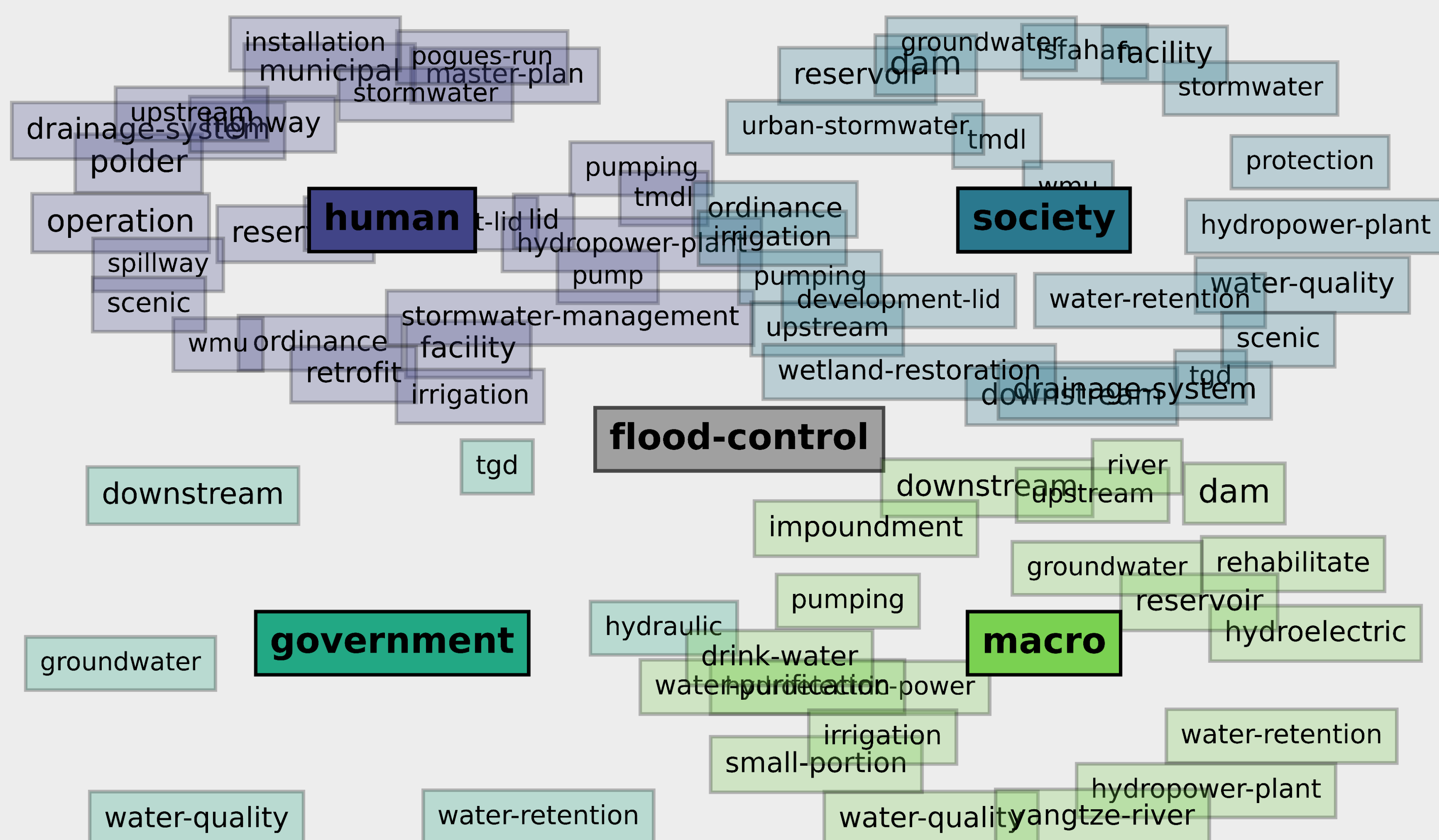


Fig. Wordclouds of words highly semantically related with flood-control and the words human, society, government, and macro, respectively. The color corresponds to the group.

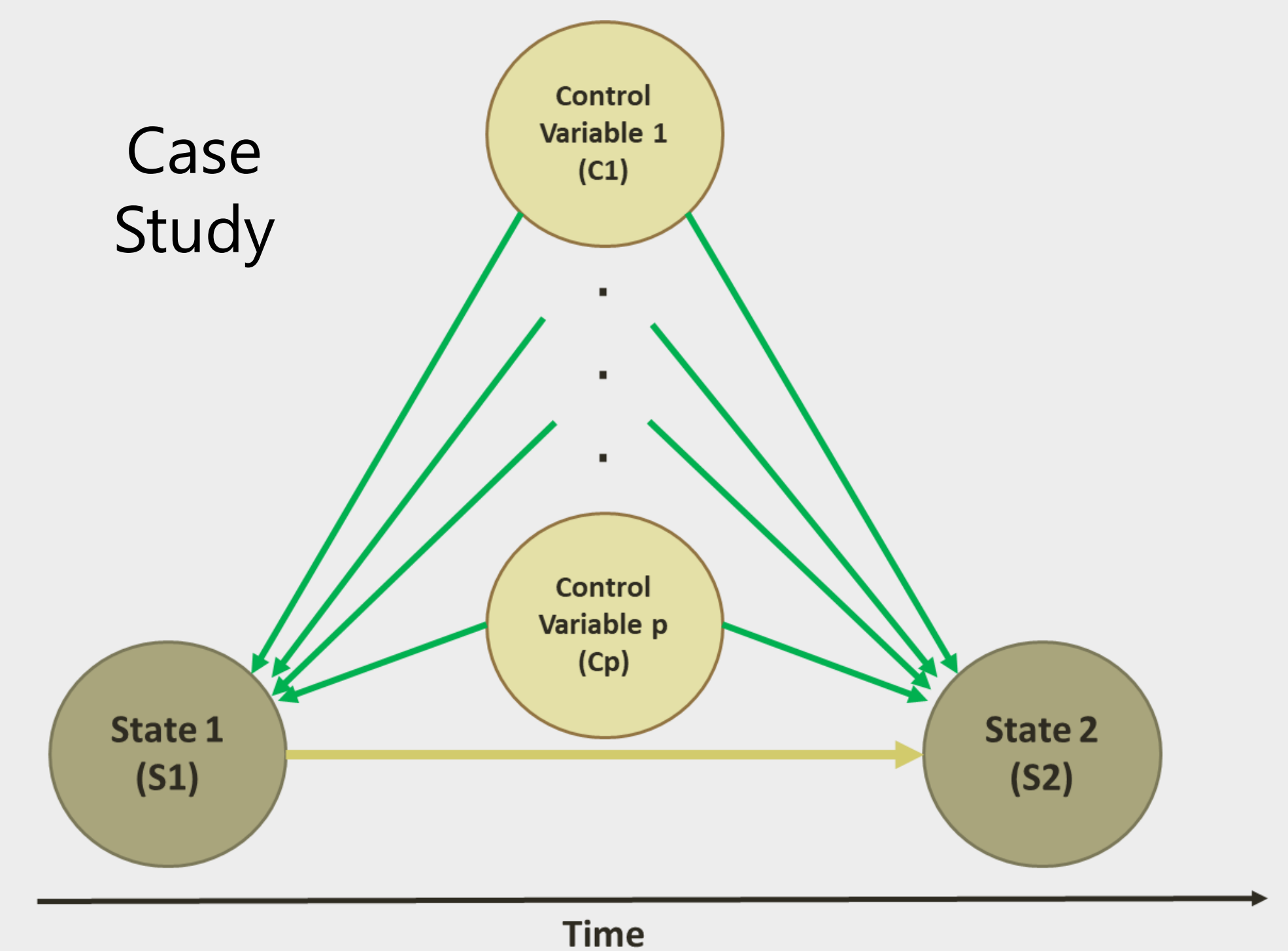
SCOPUS API	Fields	Search Terms	Data
	ARTS ENVI MULT SOCI	Climate Change AND Flood + soci* change regime shift tipping point etc.	
		~8 000 unique articles	

Look for semantic relationships with word embeddings

Train Neural Network with lemmatized abstracts (e.g. are->be)

Methods

Social Tipping Points are complex. They rely on many Control Variables to move social tipping elements into an Alternative State.



Background

- Download articles related with different case studies, such as Room for the River.
- Train and test models based on these cases and use them to find patterns in control variables across disciplines.

Future Work



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